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☐ 1. Document ID: DE.2935884 A DE 3062047 G EP 26349 A EP 26349 B JP 56040620 A JP 84000488 B

L4: Entry 1 of 1

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Apr 2, 1981

DERWENT-ACC-NO: 1981-25514D

DERWENT-WEEK: 198115

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TITLE: 1,2-di:chloroethane prodn. by liq. phase ethylene chlorination - with treatment of recycled prod. with cresol and precise heat balance

INVENTOR: DUMMER, G; SCHMIDHAMM, L ; STRASSER, R

PATENT-ASSIGNEE:

ASSIGNEE

CODE

WACKER CHEM GMBH

WACK

PRIORITY-DATA: 1979DE-2935884 (September 5, 1979)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|---------------|-------------------|----------|-------|----------|
| DE 2935884 A | April 2, 1981 | | 000 | |
| DE 3062047 G | March 24, 1983 | | 000 | |
| EP 26349 A | April 8, 1981 | G | 000 | |
| EP 26349 B | February 16, 1983 | G | 000 | |
| JP 56040620 A | April 16, 1981 | | 000 | |
| JP 84000488 B | January 7, 1984 | | 000 | |

DESIGNATED-STATES: BE DE FR GB IT NL SE BE DE FR GB IT NL SE

CITED-DOCUMENTS: DE 1902843; DE 2427045 ; GB 1231127 ; US 2929852

APPLICATION-DATA:

| PUB-NO | APPL-DATE | APPL-NO | DESCRIPTOR |
|--------------|---------------|----------------|------------|
| JP 56040620A | July 28, 1980 | 1980JP-0102553 | |

INT-CL (IPC): C07C 17/02; C07C 19/02

ABSTRACTED-PUB-NO: DE 2935884A

BASIC-ABSTRACT:

Prodn. of 1,2-dichloroethane (I) comprises liq. phase chlorination of ethylene in presence of Lewis acid catalyst while using most of the heat of reaction for evapn. and fractionation of the prod. The reaction is carried out at 0.3-1.3 bar and 50-90 deg.C; at least half the chlorine required is dissolved in the cooled reaction prod. and the remainder supplied as gas or liq., and the reaction prod. is treated with 0.001-0.01 wt.% o- or m-cresol or their mono- or di-chloro prods. (or mixts.) before

chlorine absorption.

The heat balance is maintained by (a) evapn. of the reaction prod.; (b) fractionation with reflux at 3-5 times (based on prod. discharged from condenser at the top of the column); (c) draining off prod.; (d) cooling the prod. (1.5-10 times the amt. of prod. discharged) and (e) loading the cooled reaction prod. with chlorine, then recycling to the reactor.

These conditions maintain a reproducibly controllable reaction under moderate conditions, with an exact balance between heat supplied and withdrawn. Side reactions are minimised and improved yields of high purity (I), suitable for vinyl chloride prodn., are obt'd.

TITLE-TERMS: DI CHLOROETHANE PRODUCE LIQUID PHASE ETHYLENE CHLORINATED TREAT RECYCLE
PRODUCT CRESOL PRECISION HEAT BALANCE

DERWENT-CLASS: E16

CPI-CODES: E10-H02H; N06;

CHEMICAL-CODES:

Chemical Indexing M3 *01*

Fragmentation Code

H6 M312 M332 M321 M280 M342 M360 M391 H602 H608
M620 N010 N322 M510 M520 M530 M540 M720 M416 M902

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